	Application No.	Applicant(s)
Notice of Allowability	09/901,806	SLAVIN ET AL.
	Examiner	**Art Unit**	
	Satish S. Rampuria	2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *10/17/2005*.

2. ☒ The allowed claim(s) is/are *1-51*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the

         International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

      Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date *10/17/2005*

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☐ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

DETAILED ACTION

This Office Action is in response to the Amendment filed on Oct. 17, 2005.

Claims Allowed: 1-51.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

As pointed out by the Applicants in the Remark that the cited prior art (Tremblay et al. [6,014,723] and Spencer [6,240,499]) taken alone or in combination fail to teach, in combination with the other claimed limitations, a method for accessing memory array comprising: *"dynamically declaring a dimensional dynamic overlay on the data contained within the one-dimensional array from within a block of statements in a subroutine to initialize attributes within an array attribute storage object, wherein the dynamic overlay is defined within the subroutine and provides a dimensional view on the one-dimensional array, the dimensional dynamic overlay being capable of providing a view of at least two dimensions on the one-dimensional array; and accessing the data from within the block of statements as a dimensional indexed array using the array attribute storage object, and wherein the allocated memory of the one- dimensional array remains persistent and is referenced within the array attribute storage object"* as recited in such a manner in each of independent claims 1, 7, 14 and 42.

As pointed out by the Applicants in the Remark that the cited prior art (Tremblay et al. [6,014,723] and Spencer [6,240,499]) taken alone or in combination fail to teach, in combination with the other claimed limitations, a method for processing a data array comprising: *"declaring a data array within the block of statements, including a*

dimensional dynamic overlay to provide a dimensional view on a one-dimensional array

associated with contiguous memory locations, the dimensional dynamic overlay being

capable of providing a view of at least two dimensions on the one-dimensional array, and

wherein the contiguous memory locations are persistent and the dimensional dynamic

overlay includes references to the contiguous memory locations to form the dimensional

view; setting an array boundary policy for the data array which is defined with or

referenced by some of the block of statements, wherein the array boundary policy dictates

run-time actions of the software program that are executed, if during execution of the

software program, the data array is accessed outside its boundaries, and wherein the

array boundary policy is configurable and user-defined" as recited in such a manner in

each of independent claims 22, 34, 38 and 48

Any comments considered necessary by applicant must be submitted no later than

the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to
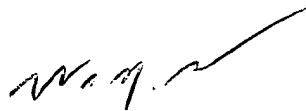
applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Satish S. Rampuria whose telephone number is (571) 272-

3732. The examiner can normally be reached on 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Y. Zhen can be reached on (571) 272-3708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Satish S. Rampuria
Patent Examiner/Software Engineer
Art Unit 2191
01/09/2006

WEI ZHEN
SUPERVISORY PATENT EXAMINER